

Name: _____ Date: _____ Period: _____

10

Patterns and Functions Quiz

Complete the table. Then, write a function rule for the relationship. (3 points)

<table border="1"> <thead> <tr> <th>number of hours</th> <th>distance traveled, in miles</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>60</td> </tr> <tr> <td>2</td> <td>110</td> </tr> <tr> <td>3</td> <td>160</td> </tr> <tr> <td>4</td> <td></td> </tr> </tbody> </table>		number of hours	distance traveled, in miles	1	60	2	110	3	160	4		Define variables:
		number of hours	distance traveled, in miles									
		1	60									
		2	110									
		3	160									
4												
Function Rule:												

Identify the independent and dependent quantity in this situation and find a reasonable domain and range. Then, complete the chart and write a function rule to describe the situation. (4 points)

Situation: Roger delivers 30 newspapers in an hour on Sundays. He works between 5 – 7 hours each Sunday.

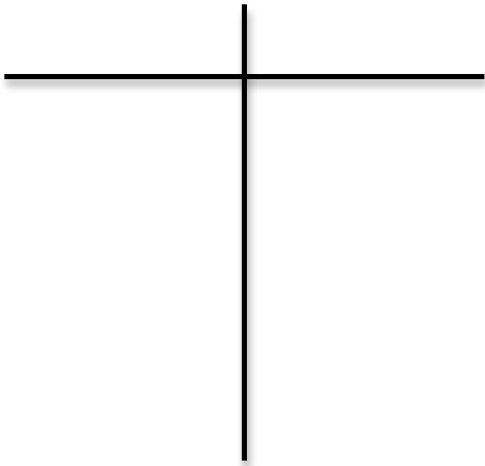
Independent Variable: _____

Dependent Variable: _____

Domain: _____

Range: _____

Complete the chart with the following words. (3 points)

<table> <tr> <td>x -values</td> <td>independent variable</td> </tr> <tr> <td>range</td> <td>output</td> </tr> <tr> <td>domain</td> <td>input</td> </tr> <tr> <td>y-values</td> <td>dependent variable</td> </tr> </table>	x -values	independent variable	range	output	domain	input	y-values	dependent variable	
x -values	independent variable								
range	output								
domain	input								
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